

Work Order ID 130710

***130710*PRELIMINARY ISSUE**

Page 1

Monday, March 23, 2015 3:02:55 PM

Item ID: D4799-1

Accept

N9000040100

Setup Start

NS1

Revision ID:

Item Name: Clamp

Stop

NS2

Start Date: 3/23/2015 Start Qty: 2.00

2

Cust Item ID:

Required Date: 3/23/2015 Req'd Qty: 2.00

2

Customer:

Reference:

Approvals: Process Plan: MCS Date: 150323 Tooling: _____ Date: _____

Run Start

NR1

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop

NR2

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr	DAS
D4799	<u>9</u>	<u>150709</u>

100 0.00

100

Waterjet

FLOW CNC Waterjet

Memo

1-Cut as per Dwg

Dwg Rev: C1

Prog Rev: C1

2-Deburr if necessary

0.00

(2)

02/15/03/23

110

QC2- Inspect parts off machine FAI/FAIB

0.00

110

QC

Quality Control

Memo

0.00

(2)

02/15/03/23

Work Order ID 130710

Monday, March 23, 2015 3:02:55 PM

130710

~~PRELIMINARY ISSUE~~

Page 3

Item ID: D4799-1

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: Clamp

Start Date: 3/23/2015 Start Qty: 2.00

2

Cust Item ID:

Required Date: 3/23/2015 Req'd Qty: 2.00

2

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run

Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

150

Identify as per dwg & Stock Location: PRELIM

0.00

150

Packaging

Memo

0.00

Packaging

②

15-03-31

DAS
9
8-89

160

QC21- Final Inspection - Work Order Release

0.00

160

QC

Memo

0.00

Quality Control

MLJ

JUL 09 2015

POSITIVE RECALL

EFFECTIVE 15-03-23 AUTH MLJ

RELEASED 15-07-09 DATE ^{DAS} 9

RD15-840-89

Release
Rev C.

② 15-4-1

Picklist Print

Monday, March 23, 2015 3:03:00 PM

~~PRELIMINARY ISSUE~~

Page 1

Work Order ID: 130710

130710

Parent Item: D4799-1

D4799-1

Parent Item Name: Clamp

Start Date: 3/23/2015

Required Date: 3/23/2015

Start Qty: 2.00

Required Qty: 2.00

Comments: IPP REV:A NEW ISSUE 13-03-28 JLM VERIFIED BY:DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M304S14GA		Purchased			No		sf	170.0000		1			
M304S14GA									**				
304SS sheet .080													

OK 15/03/23

Location

Loc Qty

Loc Code

MAT019

170

M126075

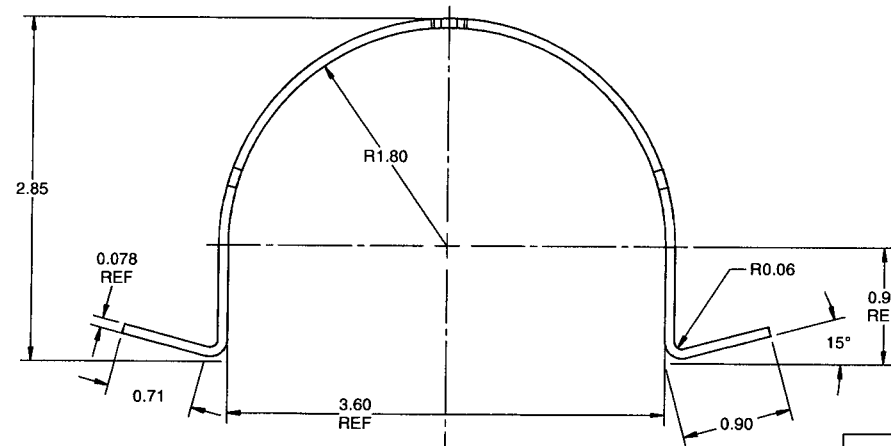
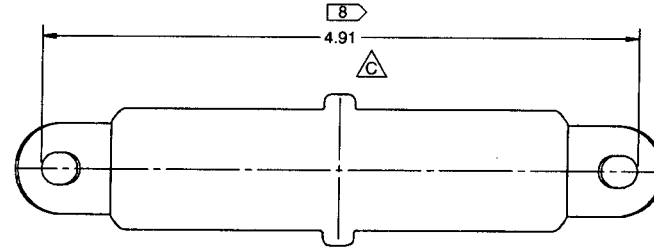
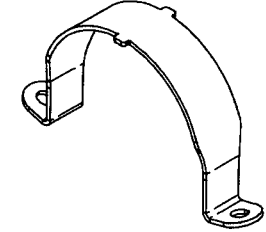
48

M129972

122

 i

PRELIMINARY ISSUE



D4799-1 CLAMP



NOTES:

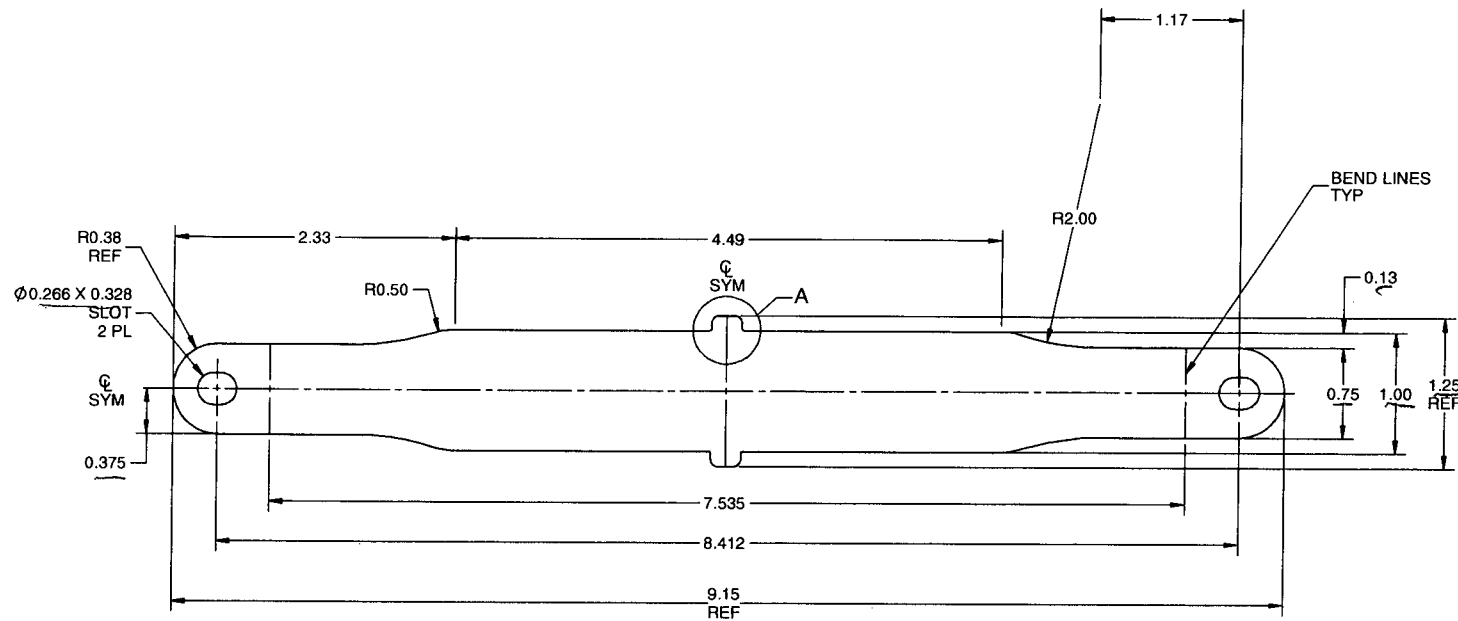
- 1) MATERIAL: MAKE FROM D4799-1F
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
- 7) WEIGHT: 0.02 lbs
- 8) DIMENSIONED FROM BOTTOM SURFACE OF CLAMP
- 9) NON-DIMENSIONED FEATURES CONTROLLED BY CAD FILE "D4799-1F-RevC.DXF"

130710 MJS
15-03-23

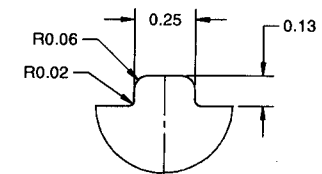
PRELIMINARY ISSUE

C	ADD CUSHION RETENTION FEATURES. REPLACE HOLES WITH SLOTS. 2.85 WAS 2.80. REASON PAR 14-331, NCR 14-3521; ZND5-1, A5-1, A8-1, B6-2, B2-2	VS	14.10.01
B	DECREASE LENGTH FROM 9.53 TO 9.16, ZN C5-1	DC	13.05.07
A	NEW ISSUE	DC	13.03.21
REV.	DESCRIPTION	BY	DATE
DESIGN	DB	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	VS		
CHECKED	RF	DRAWING NO.	REV. C1
MFG. APPR.	DD	D4799	SHEET 1 OF 2
APPROVED		TITLE	SCALE
DE APPR.		CLAMP	NTS
DATE	14.10.01	COPYRIGHT © 2013 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

PRELIMINARY ISSUE



D4799-1F CLAMP FLAT PATTERN



DETAIL A

NOTES:

- 1) MATERIAL: AISI 304/316 STAINLESS STEEL SHEET
ANNEALED 2B FINISH, 14 GAUGE (0.078 THICK)
PER AMS 5513 (304) OR 5524 (316)
OR ASTM A240 OR ASME SA240
REF. DART SPEC. M304S14GA
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.02 lbs
- 8) NON-DIMENSIONED FEATURES CONTROLLED BY CAD FILE "D4799-1F-RevC.DXF"

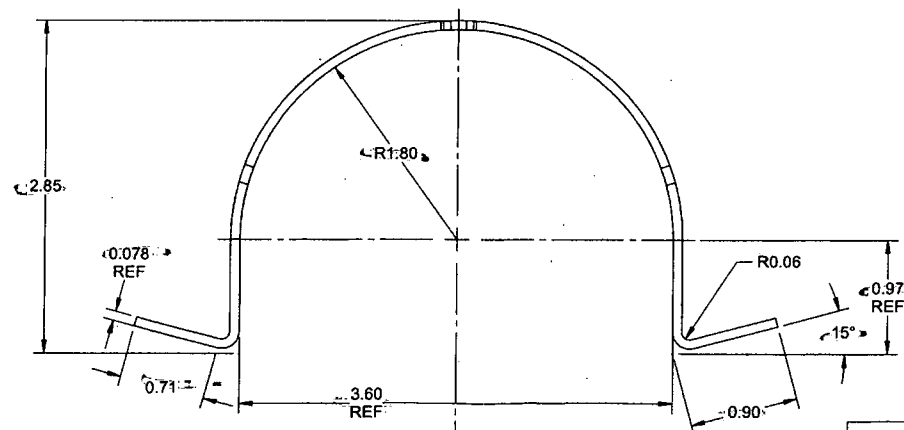
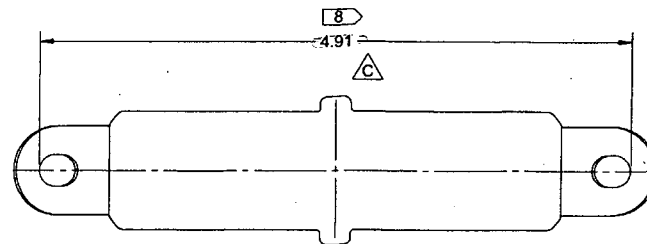
PRELIMINARY ISSUE

DESIGN	DB	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	VS		
CHECKED	RF	DRAWING NO.	REV. C1
MFG. APPR.	DD	D4799	SHEET 2 OF 2
APPROVED		TITLE	SCALE
DE APPR.		CLAMP	NTS
DATE	14.10.01	COPYRIGHT © 2013 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR DISCLOSED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

FIRST ARTICLE INSPECTION CHECKLIST

DAS		DAS			
Measured by:	30	Audited by:	30	Preliminary Approval:	
	9-89		9-89		
Date:	15/02/24	Date:	15/03/24	Date:	

Rev	Date	Change	Revised by	Approved
E	10.04.14	Added preliminary approval	KJ	



D4799-1 CLAMP

NOTES:

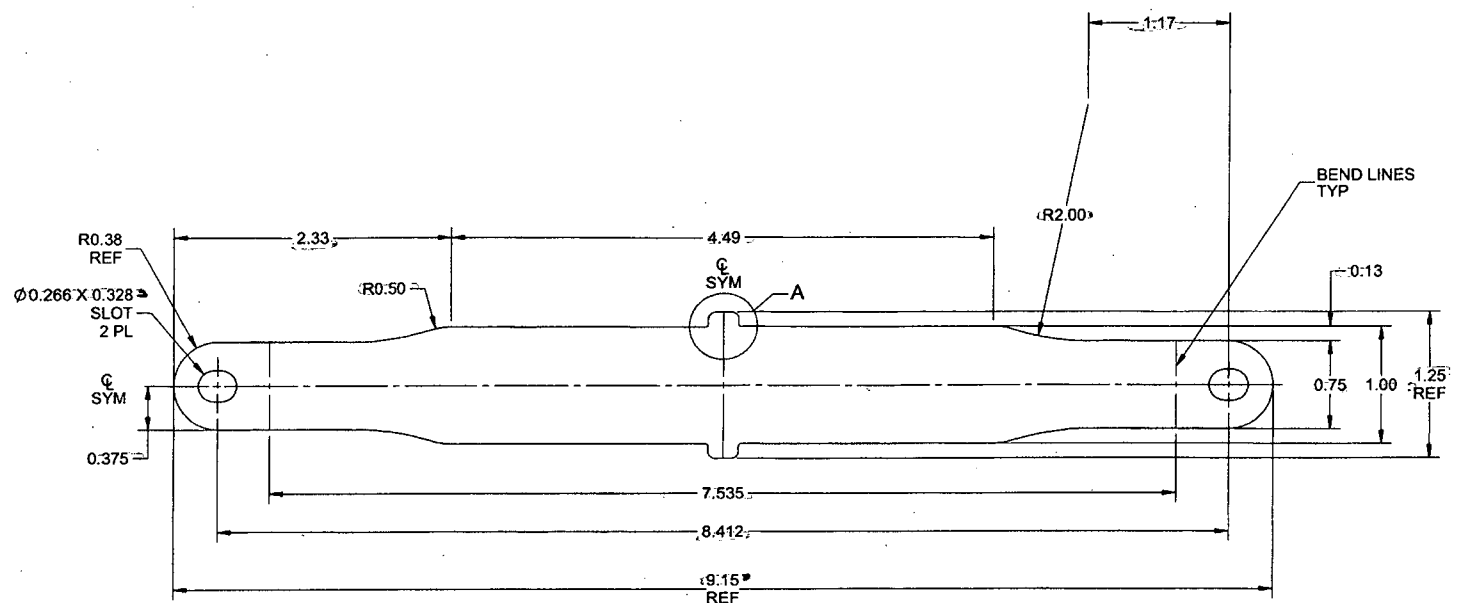
- 1) MATERIAL: MAKE FROM D4799-1F
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
- 7) WEIGHT: 0.02 lbs
- 8) DIMENSIONED FROM BOTTOM SURFACE OF CLAMP
- 9) NON-DIMENSIONED FEATURES CONTROLLED BY CAD FILE "D4799-1F-RevC.DXF"

RELEASED

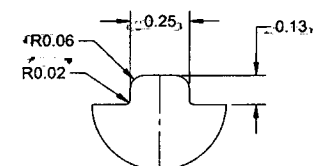
2015 MAR 30
A.P. EEN 15-535

C	ADD CUSHION RETENTION FEATURES, REPLACE HOLES WITH SLOTS, 2.85 WAS 2.80, REASON PAR 14-331, NCR 14-3521; ZND5-1, A5-1, A8-1, B6-2, B2-2	VS	14.10.01
B	DECREASE LENGTH FROM 9.53 TO 9.16, ZN C5-1	DC	13.05.07
A	NEW ISSUE	DC	13.03.21
REV.	DESCRIPTION	BY	DATE
DESIGN	DB	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA DRAWING NO. D4799 CLAMP SHEET 1 OF 2 SCALE NTS COPYRIGHT © 2013 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	
DRAWN	VS		
CHECKED	RF		
MFG. APPR.	DD		
APPROVED	HS		
DE APPR.	DS		
DATE	14.10.01		

APPROVED



D4799-1F CLAMP FLAT PATTERN



DETAIL A

RELEASED

2015 MAR 30
A.P. ECN 15-535

NOTES:

- 1) MATERIAL: AISI 304/316 STAINLESS STEEL SHEET
ANNEALED 2B FINISH, 14 GAUGE (0.078 THICK)
PER AMS 5513 (304) OR 5524 (316)
OR ASTM A240 OR ASME SA240
REF. DART SPEC. M304S14GA
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- 7) WEIGHT: 0.02 lbs
- 8) NON-DIMENSIONED FEATURES CONTROLLED BY CAD FILE "D4799-1F-RevC.DXF"

APPROVED

DESIGN	DB	DART AEROSPACE LTD	
DRAWN	VS	HAWKESBURY, ONTARIO, CANADA	
CHECKED	RF	DRAWING NO.	REV. C
MFG. APPR.	DD	D4799	SHEET 2 OF 2
APPROVED	HS	TITLE	SCALE
DE APPR.	DS	CLAMP	NTS
DATE	14.10.01	COPYRIGHT © 2013 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSES OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
VendorID/Vendor Name		VC-RYS001 Ryerson Canada									
PO20192	8		M6061T6B1.500X01. f 500		6/19/2013	6/20/2013	36.0000	\$4.72	0.0000	0	\$169.96
CAD	No		6061-T6 Bar 1.50 x f 1.50 M126075		36.0000	DESJ02		\$169.96	0.0000	0	
	9		M6061T6B1.500X04. f 000		6/19/2013	6/20/2013	24.0000	\$12.59	0.0000	0	\$302.15
	No		6061T6 Bar 1.500 x f 4.00 M126075		24.0000	DESJ02		\$302.15	0.0000	0	
	10		M6061T6B2.000X01. f 250		6/19/2013	6/20/2013	12.0000	\$5.25	0.0000	0	\$62.95
	No		6061-T6 Bar 2.00 x f 1.25 M126075		12.0000	DESJ02		\$62.95	0.0000	0	
	11		M6061T6B30000X01 f .500		6/19/2013	6/20/2013	12.0000	\$9.44	0.0000	0	\$113.31
	No		6061-T6 Bar 3.00 x f 1.50 M126075		12.0000	DESJ02		\$113.31	0.0000	0	
	12		M6061T6S.063 : sf		6/19/2013	6/20/2013	336.0000	\$1.89	0.0000	0	\$633.82
	No		6061-T6 .063 Sheet sf M126075		320.0000	DESJ02		\$633.82	0.0000	0	
	13		M6061T6S.125 sf		6/19/2013	6/20/2013	32.0000	\$3.91	0.0000	0	\$125.22
	No		6061-T6 .125 Sheet sf M126075		32.0000	DESJ02		\$125.22	0.0000	0	
	14		M304S11GA sf		6/19/2013	6/20/2013	192.0000	\$7.29	0.0000	0	\$1,400.45
	No		304/316 0.125 Sheet sf M126075		192.0000	DESJ02		\$1,400.45	0.0000	0	
	15		M304S14GA sf		6/19/2013	6/20/2013	128.0000	\$4.46	0.0000	0	\$570.98
	No		304SS sheet .080 sf M126075		128.0000	DESJ02		\$570.98	0.0000	0	
Total Received Quantity:											952.0000
Total Qty to Inspect (PO U/M):											0.0000
Total Reject Quantity:											0.0000
Total Receipt Value:											\$4,607.24
Total Balance Due Quantity:											0.0000

RYERSON

Shipping Order / Bordereau d'expédition

MO #
200 RUE DU CHEMINOT
200 RUE DU CHEMINOT
Phone/Tel (450) 424-0153

VAUDREUIL-DORION QC J7V 5V5
VAUDREUIL QC J7V 5V5

Page 4 de 5 06/19/13 17:54 CST
SO AP

Sold to/Facturer a:
DART AEROSPACE LTD.
1270, ABERDEEN STREET

Ship to/Expédier a:
DART AEROSPACE LTD.
1270, ABERDEEN STREET

S.O. / Bordereau d'expédition

X6-310685

P.O. / Bon de commande

20192

HAWKESBURY ON K6A 1K7 HAWKESBURY ON K6A 1K7 Phone/Tel (613) 632-3336

Line /# de ligne Item Description Qty Shipped/Qté expédiée B.O.Qty/En souffrance

10 5480-6948 FEU AL TN QQA250/11 6061T6 .125 X 48 X 96
Tariff Code / Code tarifaire: 7606.12.00.31
Qty Comm: 1 Order Qty/Qté commandée 1 UEA Pcs: 1 *JSUB* 1.00 UEA
(1 -SKID 56)
Cntrl: X6FM0236 C: 508189 T: 355883 1 pcs Loc EXP Wt: 1
*** Filled by Initials/Rempli par initiale: DA

11 7427-6403 TOLE 304 FINI #2B .120 X 48 X 96
Tariff Code / Code tarifaire: 7219.32.00.11
Qty Comm: 6 Order Qty/Qté commandée 6 UEA Pcs: 6 *4* 6.00 UEA
(0 -PK/WI 968 LINE 10)
Cntrl: X6FM5029 C: H2T5 T: 02H2T5C 5 pcs Loc EXP Wt: 5
Cntrl: X6FM5030 C: H2T5 T: 02H2T5C 1 pcs Loc EXP Wt: 1
*** Filled by Initials/Rempli par initiale: DA

12 7426-7949 TOLE 304 FINI #2B .075 X 48 X 96
Tariff Code / Code tarifaire: 7219.33.00.11
Qty Comm: 4 Order Qty/Qté commandée 4 UEA Pcs: 4 *X* 4.00 UEA
(0 -PK/WI 404 LINE 10)
Cntrl: X6FL6927 C: F3N7 T: 02F3N7C 2 pcs Loc EXP Wt: 2
Cntrl: X6FM3780 C: H4J7 T: 04H4J7B 2 pcs Loc EXP Wt: 2
*** Filled by Initials/Rempli par initiale: DA

Customer/Driver Instructions / Commentaires du client/chauffeur:
HEURES D'OUVERTURE 7H @ 16H LUN @ VEND DECHARGEMENT AU CHARIOT ELEVATEUR AVANT COTE CHAUFFEUR
CFC ET MTR REQUIS A LA LIVRAISON

Packing List/Bordereau de marchandises

Received by/ Reçu Par: _____ Date: _____
Acceptance of goods constitutes acceptance of our Terms and Conditions, available on our website at www.Ryerson.com,
or from your sales representative, or by calling (800) 268-2680.
L'acceptation des marchandises constitue un consentement à nos termes et conditions, qui sont disponibles
sur notre site web www.ryerson.com, ou par votre représentant interne, ou par téléphone (800) 268-2680.

Alloys of Aluminum, Copper, Steel **Caution:**
Processing of this material may present a physical and or health
hazard. See material safety data sheets for further information
Les alliages d'aluminium, de cuivre, d'acier **Avertissement:**
Le Traitement de ce matériel peut présenter un risque physique et ou
pour la santé. Pour de plus ample information voir les fiches.



METALLURGICAL TEST REPORT

NORTH AMERICAN STAINLESS
6870 HIGHWAY 42 EAST
GHENT, KY 41045

6870 HIGHWAY 42 EAST

Certificate: 840712 3 Mail To:
RYERSON CANADA, INC.
Customer: 007035 510 C/O X6 - RYERSON VAUDREUIL
200 CHEMINOT STREET
VAUDREUIL, QC J7V5V5

Ship To:
RYERSON CANADA, INC.
C/O X6 - RYERSON VAUDREUIL
200 CHEMINOT STREET
VAUDREUIL, QC J7V5V5

Date: 6/03/2013 Page: 1

Steel: 304

Finish: 2B

Your Order: 732632

NAS Order: PN 0026706 01

Corrosion: ASTM A262/10 A; 180Bend-OK

PRODUCT DESCRIPTION:

STAINLESS STEEL COIL, C.R. ANNEALED & PICKLED; UNS 30400
ASTM A240/12a, A480/12, A666/10, ASME SA240/11a, SA480/11a, SA666/11a
CHEM ONLY ON FOLLOWING ASTM: A276/10, A479/11, A484/11, A312/12a
CHEM ONLY ON FOLLOWING ASME: SA312/11a, SA479/11a
AMS 5513J XMRK; MIL-S-5059D AMEND3 (X CROWN MEAS)
NACE MR0175/ISO 15156-3:2003 A, MR0103/07; QQS766D-A X MAG PERM
MIN. SOLUTION ANNEAL TEMP 1900F, WATER QUENCHED

REMARKS:

Mat'l is Free of Mercury Contamination. No weld repairs.
EN 10204:2004 3.1; RoHS 1 & 2 Compliant
Material is Free of Radioactive Contamination
NAS Steel Making Process: EAF, AOD, & Cont. Casting
Product Mfg. by a Quality Mgt. Sys. in Conf. w/ISO 9001
*Melted & Manufactured in the USA; Mat'l is DFARS Compliant
*Melted & Manufactured in the USA; Mat'l is DFARS Compliant

Product Id	Coil #	Skid #	Thickness	Width	Weight	Length	Mark	Pieces	Commodity Code
02H2T5 C	02H2T5 C		.1163	48.0000	20,810	COIL	6	1	74275690

CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

Chemical Analysis per ASTM A751/08

HEAT	CM	C %	CR %	CU %	MN %	MO %	N %	NI %	P %	S %
H2T5	US	.0485	18.0845	.4700	1.6915	.3400	.0527	8.0050	.0320	.0010
SI %										
.2970										

MECHANICAL PROPERTIES

Product Id#	Coil #	1 d	UTS	.2% YS	ELONG	Hard	Tail
		o i	KSI	KSI	%-2"	RB	Hard
02H2T5 C	02H2T5 C	F T	93.76	45.11	52.18	86.00	87.00

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.

ERIC HESS

6/03/2013

RYERSON

DART AEROSPACE LTD. P.O. - 20192 S.O. - 310685

6/19/2013 6:00:13 PM

PAGE 17/023

Fax Server



METALLURGICAL TEST REPORT

NORTH AMERICAN STAINLESS
6870 HIGHWAY 42 EAST
GHENT, KY 41045

6870 HIGHWAY 42 EAST

Certificate: 825590 2
Customer: 007035 510
Mail To:
RYERSON CANADA, INC.
C/O X6 - RYERSON VAUDREUIL
200 CHEMINOT STREET
VAUDREUIL, QC J7V5V5

Ship To:
RYERSON CANADA, INC.
C/O X6 - RYERSON VAUDREUIL
200 CHEMINOT STREET
VAUDREUIL, QC J7V5V5

Date: 4/09/2013 Page: 1

Steel: 304

Finish: 2B

Your Order: 727892

NAS Order: PN 0024225 01

Corrosion: ASTM A262/02aE;180Bend-OK

PRODUCT DESCRIPTION:

STAINLESS STEEL COIL, C.R. ANNEALED & PICKLED; UNS 30400
ASTM A240/11b, A480/11b, A666/10; ASME SA240/11a, SA480/11a, SA666/11a
CHEM ONLY ON FOLLOWING ASTM: A276/10, A479/11, A484/11, A312/11
CHEM ONLY ON FOLLOWING ASME: SA312/11, SA479/11
AMS 5513J XMRK; MIL-S-5059D AMEND3 (X CROWN MEAS)
NACE MR0175/ISO 15156-3:2003 A, MR0103/07; QQS766D-A X MAG PERM
MIN. SOLUTION ANNEAL TEMP 1900F, WATER QUENCHED

REMARKS:

Mat'l is Free of Mercury Contamination. No weld repairs.
EN 10204:2004 3.1; RoHS 1 & 2 Compliant
Material is Free of Radioactive Contamination
NAS Steel Making Process: EAF, AOD, & Cont. Casting
Product Mfg. by a Quality Mgt. Sys. in Conf. w/ISO 9001
*Melted & Manufactured in the USA; Mat'l is DFARS Compliant
*Melted & Manufactured in the USA; Mat'l is DFARS Compliant

Product Id	Coil #	Skid #	Thickness	Width	Weight	Length	Mark	Pieces	Commodity Code
02F3N7 C	02F3N7 C		0725	48.0000	16,280	COIL	6	1	74266941

CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

Chemical Analysis per ASTM A751/08

HEAT	CM	C %	CR %	CU %	MN %	MO %	N %	NI %	P %	S %
F3N7	US	.0578	18.1790	.4115	1.6125	.3825	.0547	8.0015	.0350	.0010
SI %										
.4400										

MECHANICAL PROPERTIES

Product Id#	Coil #	UTS KSI	.2% YS KSI	ELONG %-2"	Hard RB	Tail Hard
02F3N7 C	02F3N7 C	97.77	47.62	48.96	86.50	88.50

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.

ERIC HESS

4/09/2013

6/19/2013 6:00:13 PM

PAGE 18/0263

PAGE 18/0263

PAGE 18/0263

PAGE 18/0263

PAGE 18/0263

PAGE 18/0263

PAGE 18/0263

PAGE 18/0263

PAGE 18/0263

PAGE 18/0263

PAGE 18/0263

PAGE 18/0263

PAGE 18/0263



METALLURGICAL TEST REPORT

NORTH AMERICAN STAINLESS
6870 HIGHWAY 42 EAST
GHENT, KY 41045

6870 HIGHWAY 42 EAST

Certificate: 835228 3 Mail To:
RYERSON CANADA INC.
200 CHEMINOT STREET
Customer: 007035 016 VAUDREUIL, QC J7V5V5

Ship To:
RYERSON CANADA INC.
200 CHEMINOT STREET
VAUDREUIL, QC J7V5V5

Date: 5/13/2013 Page: 1

Steel: 304

Finish: 2B

Your Order: 733888

NAS Order: DS 0003226 04

Corrosion: ASTM A262/10 A;180Bend-OK

PRODUCT DESCRIPTION:

STAINLESS STEEL COIL, C.R. ANNEALED & PICKLED; UNS 30400
ASTM A240/12a, A480/12, A666/10; ASME SA240/11a, SA480/11a, SA666/11a
CHEM ONLY ON FOLLOWING ASTM: A276/10, A479/11, A484/11, A312/12a
CHEM ONLY ON FOLLOWING ASME: SA312/11a, SA479/11a
AMS 5513J XMRK; MIL-S-5059D AMEND3 (X CROWN MEAS)
NACE MR0175/ISO 15156-3:2003 A, MR0103/07; QCS766D-A X MAG PERM
MIN. SOLUTION ANNEAL TEMP 1900F, WATER QUENCHED

REMARKS:

Mat'l is Free of Mercury Contamination. No weld repairs.
EN 10204:2004 3.1; RoHS 1 & 2 Compliant
Material is Free of Radioactive Contamination
NAS Steel Making Process: EAF, AOD, & Cont. Casting
Product Mfg. by a Quality Mgt. Sys. in Conf. w/ISO 9001
*Melted & Manufactured in the USA; Mat'l is DFARS Compliant

Product Id	Coil #	Skid #	Thickness	Width	Weight	-----Length-----	Mark	Pieces	Commodity Code
04H4J7 B	04H4J7 B		0725	48.0000	20,890	COIL	1	1	74266941

CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

Chemical Analysis per ASTM A751/08

HEAT	CM	C %	CR %	CU %	MN %	MO %	N %	NI %	P %	S %
H4J7	US	.0518	18.0495	.4210	1.7310	.3395	.0548	8.0765	.0330	.0030
SI %										
.2705										

MECHANICAL PROPERTIES

Product Id#	Coil #	1 d o i c r	UTS KSI	.2% YS KSI	ELONG %-2"	Hard RB	Tail Hard
04H4J7 B	04H4J7 B	F T	98.07	48.18	49.09	87.50	83.50

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.

ERIC HESS

5/13/2013

RYERSON
DART AEROSPACE LTD.
P.O. - 20192 S.O. - 310685
6/19/2013 6:00:13 PM
PAGE 19/023
Fax Server



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO20192**

Purchase Order Date 6/14/2013

PO Print Date 6/14/2013

Page Number 5 of 5

Order From :
RYERSON
200 DU CHEMINOT
VAUDREUIL, QUEBEC J7V 5V5

VC-RYS001

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 450-424-0153

Ship To Contact
Ship To Phone

Ship Via: Yours ppd
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB Destination-Collect

Line Total: \$129.83

14	M304S11GA	304/316 0.125 Sheet	6/19/2013	192.00	✓	\$1,452.00
			Yes	sf	pc	
	MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240		6/19/2013			

Line Total: \$1,452.00

15	M304S14GA	304SS sheet .080	6/19/2013	128.00	✓	\$592.00
			Yes	sf	u	
	AS ABOVE		6/19/2013			

Line Total: \$592.00

PO Total: \$4,774.89

Note: Pricing listed above is as per contract agreement between Dart Aerospace and the respective manufacturer.
No substitution or deviation without consent.
Certificate of Conformity or Material Certification required ☒ YES ☐ NO

Change Nbr: 2

Change Date: 6/14/2013